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ABSTRACT

The document provides occupational information intended for use in elementary schools and possibly junior high schools. It lists occupations typically identified as being part of the 15 U.S.O.E. occupational clusters. Occupations listed are those that are most common to the cluster, and, generally, those common to Iowa communities. Four levels of occupations form the structural basis of the document: (1) self--those occupations directly affecting the student, (2) family or self--those occupations directly affecting the student's family through a service or product, (3) family or community--those occupations affecting the student indirectly, and (4) unknowns--those occupations unfamiliar to the student or dealing with more abstract types of work and products. (MW)

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Models for Career Education in Iowa

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Models for Career Education in Iowa

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FOR USE IN ELEMENTARY SCHOOLS

Conducted Under Research and Exemplary Grants
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Grimes State Office Building
Des Moines, Iowa 50319

Under Supervision of

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Department of Agricultural Education
Ames, Iowa 50010

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PREFACE

Career Education - Is it good for kids? -- That's a question that has prompted many of us to search for a greater understanding of the concept and to reassess the types of experiences our educational programs provide. This search is resulting in a growing commitment to assure curriculum objectives and activities that provide career education experiences for all students.

An exemplary project, Models for Career Education in Iowa, was initiated in 1971 thru the Iowa Department of Public Instruction. The purpose of the effort was to research, define and describe an emerging concept of career education and to suggest possible approaches for implementation in grades K-8. In 1972 the project was expanded to include the curriculum of high school students.

The project is sponsored by the Iowa Department of Public Instruction in cooperation with Iowa State University and nine local school districts. The project staff under the direction of Dr. Alan Kahler, Iowa State University, is working with the following local schools: Shenandoah, Humboldt, Davenport, Marshalltown, Carroll, Sheldon, Osceola, South Winneshiek and Springville Community School Districts. The third party evaluation is being provided by the Iowa Center for Research in School Administration under the leadership of Dr. Ralph Van Dusseldorp and Dr. Walter Foley.

A series of workshops were conducted involving participating school staff and outside resource persons with various backgrounds and expertise. These workshops have provided a multi-discipline approach in establishing understanding and agreement of a set of basic objectives of career education. During the summer of 1973, staff from each of the nine districts participated in workshops to prepare first draft curriculum materials for use in the respective school settings during the 1973-1974 school year.

The publications which follow were developed as part of the responsibility of project participants and staff to provide visibility to the findings and accomplishments of the project. These guidelines and instructional materials are provided at this time to assist local school personnel interested in initiating programs, services, and activities for their students.

Robert D. Benton

Robert D. Benton, Ed.D.
State Superintendent of
Public Instruction

The activity which is the subject of this report was supported in whole or in part by the U. S. Office of Education, Department of Health, Education, and Welfare. However, the opinions expressed herein do not necessarily reflect the position or policy of the U. S. Office of Education, and no official endorsement by the U.S. Office of Education should be inferred.

ACKNOWLEDGEMENTS

The content of this publication is based on experiences encountered by teachers and administrators in the exemplary project entitled "Models for Career Education in Iowa." Much credit is due personnel in the nine local schools who tested these procedures in their systems and provided the documentation needed to validate the implementation process. Appreciation is expressed for the assistance and contributions of project participants and staff in the development of this publication.

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Davenport Community Schools	Model School
Humboldt Community Schools	Model School
Marshalltown Community Schools	Model School
Sheldon Community Schools	Model School
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TO THE TEACHER

Information provided on the following pages lists occupations typically identified as being a part of the fifteen U. S. Office of Education Occupational Clusters. Occupations listed are those that are most common to the cluster and in the main, those that are found in most communities in Iowa. The lists are by no means intended to be complete listings of all occupations within the cluster. The user of this publication is encouraged to add to the lists where he or she feels it appropriate to do so. A recommended resource for identifying additional occupations is The Dictionary of Occupational Titles.

Little cross-referencing has been done. You may note that some occupations listed could also be listed in other clusters. Your teaching objectives should dictate in which cluster the occupations being considered should be covered.

The criteria used to set up the four levels of occupations were as follows:

Level I (Self) lists those occupations that the student has direct contact with during his day and those that directly affect his way of life. These occupations should be very visible occupations where something is being made or done that the student can see.

Level II (Family or Self) lists those occupations that directly affect the student or his family. These occupations should be those the student can visualize in a product or service.

Level III (Family or Community) lists those occupations that affect the student indirectly through his family or the community. These occupations should lend themselves to field trips where the student hasn't been before.

Level IV (Unknowns) lists those occupations that the student may not be aware of at all. These occupations deal with more abstract types of work and products.

The lists of occupations on the following pages are meant to provide assistance to elementary and possibly junior high school teachers. In situations where teachers teach in a given subject matter area, they will need to select occupations that fit their subject matter areas from all cluster areas.

The publication was compiled by Phyllis Ahrends, assisted by Dr. Eleanore Kohlmann of Iowa State University, and the Career Education project staff.

AGRIBUSINESS AND NATURAL RESOURCES CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Farmer	Florist - Nurseryman	Livestock - Handler	Park Naturalist
Gas Station Attendant	Gas Truck Driver	Fire Lookout	Agricultural Engineer
Livestock & Commodities	Seed & Feed Salesperson	Farm Equipment Mechanic	Forest Ranger
Farmstead Owner	Elevator Operator	Forest Fire Fighter	Substation Operator (Power Co.)
Butcher - Grocery Store	Cattle Auctioneer	Powerhouse Runner	Mining Engineer
Greenskeeper	Slaughter House Worker	Troubleman (Power Station)	Draftsman (Mining)
Groundsman	Farmer	Blaster	Geologist
	Power Lineman	Augerman (Mining)	Seismographer (Petroleum)
	Gas Distribution Work	Weigher (Batch, Grain)	Geophysicist
	Nursery Worker	Petroleum Field Worker	Extension Agent
	Sod Layer	Miner	Soil Scientist
	Tree Planter	Machinery Salesperson & Serviceperson	Fish Farmer
	Nurseryman	Milling Worker (Grain Elevator)	Soil Conservationist
		Game & Fish Warden	Bookkeeper
		Locker Plant Butcher	Farm Loan Co. Employee
		Nursery Salesperson	Artificial Breeding Technician
		Soil Scientist	Wholesaler
		Soil Conservationist	Horticulturist
			Agricultural Engineer

COMMUNICATION AND MEDIA CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Telephone Repairman, Installer	Telegrapher	Telephone Lineman	Superintendent of Central Telephone Office
Television Repairman	Telegraph Agent	Layout Person (News Media)	Telephone Answering Service Operator
Telegram (Delivery Man, Messenger)	Sign Painter	Film Developer	Systems Analyst
Telephone Operator	Customer Service	Job Printer	Computer Programmer
Disc Jockey	Reporter	Make-up Person	Photograph Finisher
TV Announcer	News Photographer	Composing Room Person	Electro Typer
Radio Announcer	Distribution Clerk	Producer and Director	Book Binder
Performer		Library Technician	News Analyst
Mail Carrier		Writer	News Specialist
Librarian		Editor (Newspaper, Film)	Copy Writer
		Typesetter	Proofreader
		Broadcast Technician	Advertising Executives Advertising Layout Person
		Columnist	Program Director (News-Media)
		Cameraman	Set Designer
		Recording Engineer	Satellite Transmission Specialist
		TV Engineer	Photo Engraver
		Mail Sorter	Electrotyper & Stereotyper
		Mail Handler	Lithographer
		Addressing Machine Operator	Photographic Laboratory Technician
		Projectionist	
		Printing Pressman & Assistant	

CONSTRUCTION CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Glazer	Carpenter - Joiner	Welder	Architectural Modeler
Plumber	Electrician	Pipe Fitter	Stonemason
Brick Layer	Plasterer	Septic Tank Installer	Interior Designer Decorator
Carpenter		Well Digger	Architect
Dump Truck Man	Bulldozer Operator	Ship Builder	Surveyor
Painter, Paper Hanger	Scraper Operator	Heating-Cooling System Installer	Sewer Foreman
	Powershovel Operator	Sewer Layer	Civil Engineer
	Trench Digger Operator	Asbestos & Insulating Worker	Construction Engineer
		Operating Engineer	Maintenance and Repair
	Power Lineman		
	Gas Distribution Worker		
	Tile Setter		
	Carpet Layer		
	Concrete Worker		
	Road Construction Worker		
	Cabinet Maker		
	Real Estate Broker and Salesperson		
	Floor Covering Installer		

CONSUMER & HOMEMAKER CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Babysitter	Specialist Teacher	Day Care Center Helper	House Parent
Custodian	Gardener	Infant and Child Nurse	Food Scientist
Housekeeper (Home)	Home-Health Aide	Equipment Specialist	Caseworker
Painter	Laundress, Launderer	Maids in Hotel-Motel	Home Agent
Paperhanger	Upholsterer	Drapery Measurer	Housekeeper (Hotel-Motel)
Waiter, Waitress	Butcher	Furniture Maker	Architect
Short Order Cook	Baker	Chef-Various Cook	Interior Designer
Shoemaker	Presser in a Dry Cleaners	Hostess	Dietician
Counter Person at the Laundry or Dry Cleaner	Alterations Person in Store	Dry Cleaner Machine Operator	Restaurant or Hotel Manager
Bakery Worker	Nursery School Teacher	Patcher in Laundry	Model
Homemaker		Sewing Machinist in Factory	Caterer
		Knitting or Weaving Machine Operator	Designer
		Extension Home Economist	Display Worker (Store)
		Caterer	Factory Foreman or Supervisor
		Cake Decorator	Industry Home Economist
		Home Economics Teacher	Researcher
		Upholsterer	Clothing Designer
		Utility Home Economist & Demonstrator	Product Development
		Store Buyer	Product Tester
			Family Counselor
			Consumer Counselor
			Buyer - Clothing, Food, Etc.

ENVIRONMENT CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Land Surveyor	Prospector	Minerologist	Earth Scientist
Snow Shoveler	Park Caretaker	Seismologist	Geologist
Weather Reporter	Weather Observer	Soil Scientist	Geodesist
Health Inspector	Field Health Officer	Assayer	Photo Geologist
Custodian	Sanitarian	Soil Conservationist	Agriculture Engineer
Mosquito Sprayer	Waste Water Treatment Plant Operator	Meteorologist	
Architect	Fumigator	Climatologist	Smoke Tester
Refuse Collector	Urban Planner	Astronaut	Aeronautical Engineer
Exterminator	Incinerator Plant Attendant	Food Inspector	Air Analyst
Camp Counselor	Recycling Operator	Public Health	Taxicologist
Fire Lookout	Community Development Director	Horticulturalist	Environmental Tester
Lighthouse Keeper	Nurseryman	Landscape Architect	Pathologist
Water Analyst	Field and Game Warden	Environmental Teacher	Bacteriologist
	Forest Ranger	Sanitary Engineer	Industrial Health Engineer
	Park Ranger	Civil Engineer	
	Water Treatment Plant Operator	Game Keeper	Social Ecologist
	Marine Mammal Trainer	Fish Hatchery Manager	Biostatistician
	Watershed Tender	Animal Ecologist	Geneticist
		Forest Ecologist	Pharmacologist
		Huntsman	Industrial Waste Inspector
		Oceanographer	Zoologist
		Aquatic Biologist	Animal Husbandry
		Marine Surveyor	Parasitologist
			Hydrographer
			Waster Master
			Industrial Hygiene Chemist
			Industrial Hygiene Engineer

FINE ARTS AND HUMANITIES CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Music, Art, Dance Teacher	Band Director	Musician - Dance Band	Commercial Artist
Choir Leader (Church)	Photographer	Cameraman (TV)	Headstone Sculptor
Piano Teacher	Artist	Advertising Layout Person	Choreographer
Organist	Minister	Reporter	Arranger (Music)
Librarian		Editor	Music Copyist
		Rewriter	Translator
		Copywriter	Anthropologist
		Dancer	Archeologist
		Singer	News Analyst
		Cartoonist	Critic
		Florist	Poet
		Circus Performer	Writer
		Performer	Industrial Designer
			Advertising Designer
			Designer - all types
			Set Designer
			Display
			Restorer
			Musician
			Theologian

HEALTH CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Doctor (G.P.)	County Health Officer	Sewage Disposal Engineer	Health Administrator
Nurse	Dentist	Doctor (Specialist)	Histological Technician
Nurses' Aide	Optician	Nurse (Specialist)	Hospital Engineer
Ambulance Driver	Ambulance Attendant	Dental (Technician Assistant)	Hospital Administrator
Receptionist (Dr., Dentist, etc.)	Pharacist & Helper	Ward Supervision (Mental Institute)	Therapist - Occupational Physical Recreational
Dental Assistant	Audiologist	First-Aid Attendant	Sanitary and Safety Inspector
	Dental Hygenist	Emergency Entrance Attendant	Psychiatrist
	Health Education	X-Ray Technician	Psychologist
		Medical Clerk, (Office Worker)	Medical Librarian
		Surgical Technician	Oral Pathologist
		Blood Bank Technician	Anesthesiologist
		Health Insurance Personnel	Medical Technologist (Bacteriology, Hemotology, Serology, Histology)
		Executive Housekeeper	Histological Illustrator
		Home Health Aide	X-Ray Developer
		Hospital Laundry Manager	All Pollution Control Technician
		Hospital Librarian	Biochemist
		Inhalation Therapist	Biomedical Engineer
		Optometric Technician & Assistant	Certified Laboratory Assistant
		Physician Assistant	Clinical Chemist

HEALTH CLUSTER continued

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
			Dietician Electrocardiograph Technician Electrocephalographic Technician Food Service Supervisor Medical Illustrator or Photographer Medical Records Librarian Micro Biologist Nutritionist Psychiatric Aide Rehabilitation Counselor

MANUFACTURING CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Secretary	Quality Control Worker	Efficiency Expert	Marketing Research Worker
Truck Driver	Machine Operator	Expediter	Industrial Traffic
Parts Clerk	Inspector	Shipping & Receiving Clerk	Set Up Person
Salesperson	Stock Clerk	Tool & Die Maker	Technical Worker
	Bookkeeper	Model Maker	
	Foreman	Draftsman	
	Industrial Machinery Repairman	Engineer	
	Assembler	Technician	
	Production Supervisor	Instrument Repairman	
	Maintenance Personnel	Maintenance Electrician	
		Industrial Designer	
		Chemist	
		Biochemist	
		Physicist	
		Programmer	
		Buyer	
		Purchasing Agent	
		Accountant	

MARINE SCIENCE CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Fisherman	Diving Fisherman	Oceanographer	Aquatic Biologist
Fishing Guide	Fish Bin Tender	Marine Technician	Geochemist
Trapper	Fishing Instructor	Shellfish Bedman	Hydrologist
Live Bait Supplier	Pearl Diver	Sponge Diver	Limnologist
Fish Farmer	Shellfish Grower	Trap Tender	
Wharf Attendant	Tropical Fish Dealer	Net Man	Fishery Bacteriologist
Motorboat Operator	Dock Master	Kelp Cutterman	Whale Harpooner
Bridge Operator	Barge Captain	Fish Culturist	Crab Inspector
Skin Diver	Sounder	Frog Grower	Walrus Hunter
Salvage Diver	Lock Tender		Fishing Rod Assembler
	Seaman	Boatswain	
	Lighthouse Keeper	Barge Loader	Alligator Farmer
		Long Shoreman	Float Master
	Dredge Operator	Motorboat Mechanic	Port Captain
	Underwater Photographer	Deck Engineer	Marine Mining
		Marine Surveyor	Hydrographer
		Hydraulic Draftsman	Glaciologist
			Marine Architect
			Marine Engineer

MARKETING & DISTRIBUTION CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Door to Door Salesperson	Salesperson	Auctioneer	Home-Service Representative
Clerk in Store	Carpet Cutter & Fitter	Coin Vending Machine Collector	Solicitor
Billposter		Direct Mail Specialist	Contracts Manager
Delivery Person	Display Person/ Window Trimmer	Circulation Manager (Newspaper)	Advertising Manager
	Model Dresser	Wedding Consultant	Account Executive
		Shipping Clerk	Market Researcher
	Truck Driver	Storekeeper	Personal Shopper
	Route Person	Purchasing Agent	Floor Manager
		Buyer	Market Specialist
		Dispatcher	

OFFICE CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Cashier	Bookkeeper	Accountant	Systems Analyst
Coin Wrapper	Construction Estimator	Computer Operator	Claims Adjustor
Production Inspector	Broker	Computer Programmer	Microfilm Mounter
Telephone Operator	Billing Clerk	County Auditor	Traffic Clerk
Secretary	Bank Teller	Credit Analyst	Marketing Research Worker
Receptionist	Payroll Clerk	Mortgage Clerk	Underwriter
Bank Cashier	Customer Service Salesperson	Title Searcher	Foreign Language Stenographer
Librarian	Medical Secretary	Purchasing Agent/ Buyer	Technical Secretary
Parts Clerk	Office Machine Operator	Insurance Agent	Statistician
Hotel Clerk	Bill Collector	Court Reporter	Compiler
Grocery Checker	File Clerk	Real Estate Salesperson	Fan Mail Clerk
Salesperson	Clerk Typist	Public Stenographer	Braille Duplicating Machine Operator
Postal Clerk	Stenographer	Social Secretary	Actuary Clerk
Business Proprietor	Addressing Clerk	Legal Secretary	Chart Clerk
	Telephone Operator	Sorter	Medical Record Librarian
	Key Punch Operator	Office Machine Operator	Telegraph Operator
	Traffic Control Manager (Streets, Lights)	Repossessor	Arbitrator
	Sales Manager	Chief Timekeeper	Organizer
	Supermarket Manager	Stenotype Operator	Job Analyst
	Stock Clerk	Personnel Clerk	Labor Relations Consultant
	Independent Owner	Fingerprint Clerk	Securities Salesperson
		Shipping Clerk	Corporation President
		Proofreader	Hospital Administrator
		Verifier Operator	
		Advertising Manager	
		Loan Counselor	
		Personnel Manager	

OFFICE CLUSTER continued

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
		Credit Manager	
		Administrative Secretary	
		Fund Raiser	
		Personnel Trainer	
		Public Relations Manager	
		Junior Executive	
		Business Partner	
		Franchise Owner	
		Board of Director Member	

PERSONAL SERVICES CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Barber	Ambulance Driver	Funeral Director	Physical Therapist
Beautician	Hot or Cold Room Attendant	Finnish, Russian or Turkish Masseur	Embalmer
Pet Shop Owner	Housekeeper	Veterinarian	Make-up Man or Woman (TV, Funerals, Beauty Shops)
Dog Pound Attendant	Horseshoer	Attorney	Occupational Therapist
Paper Carrier	Dog Trainer	Bartender	Recreational Therapist
Waiter, Waitress	Manicurist		Rehabilitation Therapist
	Cook & Chef		

PUBLIC SERVICES CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
School Crossing Guard	Toll Bridge Attendant/ Collector	Bank Cashier/Teller	Major
Patrol Officer	Bailiff	City Council Person	City Manager
Fire Fighter	Watchman	Highway Maintenance Person	Tax Assessor
Meter Maid	Police Sergeant	Lawyer	Union Labor Representative
School Bus Driver	Shopping Investigator	Judge	Warden
Civil Defense Warden	Rural Mail Carrier	Court Reporter	Parole Officer
Mail Carrier	Post Office Clerk	Recreation Center Director	Probation Officer
Librarian	Life Guard	Detective	Fire Inspector
Teacher	Social Worker	Jailer	Head Matron (Police)
Guidance Counselor	Minister	Armored Car Guard	Harbor Police
Custodian		Sheriff/Marshall	Corrections Officer
		Extension Service Specialist	4-H Club Agent
		District Extension Service	Home Service Director
		Specialist Teacher	College Faculty Member
		Soldier, Sailor, Airman, etc.	Dean of Students/ College
		Mailing Supervisor	WAC, WAF, WAVE, SPAR
		Diesel Engine Operator	Compressor Engine
		Boiler Operator	Coal Substation Attendant
		Electric Cable Maintenance Person	Turbine Attendant
		Incinerator Foreman	Sewage Plant Operator
		Community Aid Worker	Customs Official
		Welfare Worker	Students Personnel Worker
			Consumer Protection Agency Worker
			FBI Agent

RECREATION & HOSPITALITY CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Ticket Taker	Bowling Alley Attendant	Drive-in Theatre Attendant	Rodeo Performer
Usher	Golf Range Attendant	Projectionist	Theatre Performer
Ticket Dispenser	Lobby Attendant	Drama Teacher	Horse Track Worker
Coach (Summer Recreation)	Clown (Circus Performer)	Coach (Athletic)	Conductor (Music)
Life Guard	Sporting Goods Store Manager: salesperson	Camp Counselor	Park Supervisor
	Umpire	Sports Announcer	Sports Equipment Manufacturer
	Referee	Professional Athlete	Sports Columnist
	Caddie	Greens Keeper	
		Hunting & Fishing Guide	

TRANSPORTATION CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWNS
Truck Driver	Taxi Driver	Warehouse Foreman	Traffic Inspector
Bus Driver	Auto Mechanic, Service Station Person	Safety Engineer	Traffic Maintenance Officer
Parking Lot Attendant		Signal Erector	
Car Wash Worker	Pilot (Airline)	Diesel Mechanic	Missile Control Pilot
Airline Stewardess or Steward	Reservations Agent	Navigator	Airplane Mechanic
Ticket Agent	Travel Agent	Traffic Clerk	Test Pilot
Toll Collector	Traffic Rule Clerk	Flight Information Expeditor	Check Pilot
Railroad Conductor	Railroad Station Agent	Railway Express Agent	Schedule Analyst
Motorboat Operator	Ships Pilot	Section Gang Worker	Air Traffic Controller
Ferryboat Operator		Brakeman	Locomotive Engineer
		Fireman	
		Longshoreman	Ship Captain
		Able Seaman	Deck Captain
		Stevedore	Barge Captain
			Quartermaster